

PCT
09

RAW SEQUENCE LISTING DATE: 04/04/2001
PATENT APPLICATION: US/09/646,679 TIME: 11:39:42

Input Set : A:\seqlist-0623.0890000.txt
Output Set: N:\CRF3\04042001\I646679.raw

ENTERED

See p. 5.

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79 <220> FEATURE:
80 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer DZ2BGENF
82 <400> SEQUENCE: 5
83 ggctctagac gaactgcgga gcaagg 26
86 <210> SEQ ID NO: 6
87 <211> LENGTH: 29
88 <212> TYPE: DNA
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer DZ2BGENR
94 <400> SEQUENCE: 6
95 ctgccccatgggt cgggtttttt tcttcgaac 29
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 23
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ATDZ2F
106 <400> SEQUENCE: 7
107 cactagtagg gcacgcgtgg tcg 23
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 27
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer ATDZ2R
118 <400> SEQUENCE: 8
119 tcccatggtcg atttcttttc totcaag 27
122 <210> SEQ ID NO: 9
123 <211> LENGTH: 28
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer DZ2FLA
130 <400> SEQUENCE: 9
131 gggcgaattcc ggtgaggagg cagtaatc 28
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 28
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer DZ2RLA
142 <400> SEQUENCE: 10
143 ggccccatggc atacatacac accttagac 28
146 <210> SEQ ID NO: 11
147 <211> LENGTH: 22
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:

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152 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer DZ15RL
 154 <400> SEQUENCE: 11
 155 aacagctgaa aacccacgaa ag 22
 158 <210> SEQ ID NO: 12
 159 <211> LENGTH: 28
 160 <212> TYPE: DNA
 161 <213> ORGANISM: Artificial Sequence
 163 <220> FEATURE:
 164 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer F1
 166 <400> SEQUENCE: 12
 167 ggcccatggc tgccaaagtt tgagtagc 28
 170 <210> SEQ ID NO: 13
 171 <211> LENGTH: 27
 172 <212> TYPE: DNA
 174 <213> ORGANISM: Artificial Sequence
 176 <220> FEATURE:
 177 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer R1
 179 <400> SEQUENCE: 13
 180 ggccctgcagt gcctaggatc tggaagc 27
 183 <210> SEQ ID NO: 14
 184 <211> LENGTH: 605
 185 <212> TYPE: DNA
 186 <213> ORGANISM: Brassica napus
 188 <220> FEATURE:
 189 <221> NAME/KEY: CDS
 190 <222> LOCATION: (20)..(427)
 192 <400> SEQUENCE: 14
 193 ggcacgagca gaatcgaag atg gca aca aaa tcc atg gga gat atc gag aaa 52
 194 Met Ala Thr Lys Ser Met Gly Asp Ile Glu Lys
 195 1 5 10
 197 ata aag aag aaa cta aac gtg ttg atc gtc gat gat gat cca cta aac 100
 198 Ile Lys Lys Lys Leu Asn Val Leu Ile Val Asp Asp Asp Pro Leu Asn
 199 15 20 25
 201 ctt ata att cat gag aag atc atc aaa gcg att ggg ggt att tca cag 148
 202 Leu Ile Ile His Glu Lys Ile Ile Lys Ala Ile Gly Gly Ile Ser Gln
 203 30 35 40
 205 aca gcg aat aac ggt gag gag gca gta atc atc cac cgt gac ggc ggc 196
 206 Thr Ala Asn Asn Gly Glu Ala Val Ile Ile His Arg Asp Gly Gly
 207 45 50 55
 209 tca tct ttt gac ctt atc atg gat aaa gaa atg ccc gag agg gat 244
 210 Ser Ser Phe Asp Leu Ile Leu Met Asp Lys Glu Met Pro Glu Arg Asp
 211 60 65 70 75
 213 ggt gtt tcg aca act aag aag cta aga gaa atg gaa gtg aag tca atg 292
 214 Gly Val Ser Thr Thr Lys Lys Leu Arg Glu Met Glu Val Lys Ser Met
 215 80 85 90
 217 att gtt ggg gtg act tca ctg gct gac aat gaa gag gag cgc agg gct 340
 218 Ile Val Gly Val Thr Ser Leu Ala Asp Asn Glu Glu Arg Arg Ala
 219 95 100 105
 221 ttc atg gaa gct gga ctt aac cat tgc ttg gca aaa ccg tta acc aag 388

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222 Phe Met Glu Ala Gly Leu Asn His Cys Leu Ala Lys Pro Leu Thr Lys
223 110 115 120
225 gac aag atc atc cct ctc att aac caa ctc atg gat gct/tgatggatat 437
226 Asp Lys Ile Ile Pro Leu Ile Asn Gln Leu Met Asp Ala
227 125 130 135
229 atatttata ttatggaaac acacataata acgtctaagt gtgtatgtat gcataagatac 497
231 ttgcgtgtgt gtgtttaga atttagggtt ctttatcgtc cgtgatataat aatcatgtaa 557
233 gttgttgctt taagcttata aaatattaa ataagggtt cctctacc 605
236 <210> SEQ ID NO: 15
237 <211> LENGTH: 136
238 <212> TYPE: PRT
239 <213> ORGANISM: Brassica napus
241 <400> SEQUENCE: 15
242 Met Ala Thr Lys Ser Met Gly Asp Ile Glu Lys Ile Lys Lys Lys Leu
243 1 5 10 15
245 Asn Val Leu Ile Val Asp Asp Asp Pro Leu Asn Leu Ile Ile His Glu
246 20 25 30
248 Lys Ile Ile Lys Ala Ile Gly Gly Ile Ser Gln Thr Ala Asn Asn Gly
249 35 40 45
251 Glu Glu Ala Val Ile Ile His Arg Asp Gly Gly Ser Ser Phe Asp Leu
252 50 55 60
254 Ile Leu Met Asp Lys Glu Met Pro Glu Arg Asp Gly Val Ser Thr Thr
255 65 70 75 80
257 Lys Lys Leu Arg Glu Met Glu Val Lys Ser Met Ile Val Gly Val Thr
258 85 90 95
260 Ser Leu Ala Asp Asn Glu Glu Glu Arg Arg Ala Phe Met Glu Ala Gly
261 100 105 110
263 Leu Asn His Cys Leu Ala Lys Pro Leu Thr Lys Asp Lys Ile Ile Pro
264 115 120 125
266 Leu Ile Asn Gln Leu Met Asp Ala
267 130 135
270 <210> SEQ ID NO: 16
271 <211> LENGTH: 136
272 <212> TYPE: PRT
273 <213> ORGANISM: Brassica napus
275 <400> SEQUENCE: 16
276 Met Ala Thr Lys Ser Met Gly Asp Ile Glu Lys Ile Lys Lys Lys Leu
277 1 5 10 15
279 Asn Val Leu Ile Val Asp Asp Asp Pro Leu Asn Leu Ile Ile His Glu
280 20 25 30
282 Lys Ile Ile Lys Ala Ile Gly Gly Ile Ser Gln Thr Ala Asn Asn Gly
283 35 40 45
285 Glu Glu Ala Val Ile Ile His Arg Asp Gly Gly Ser Ser Phe Asp Leu
286 50 55 60
288 Ile Leu Met Asp Lys Glu Met Pro Glu Arg Asp Gly Val Ser Thr Thr
289 65 70 75 80
291 Lys Lys Leu Arg Glu Met Glu Val Lys Ser Met Ile Val Gly Val Thr
292 85 90 95
294 Ser Leu Ala Asp Asn Glu Glu Arg Arg Ala Phe Met Glu Ala Gly

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295 100 105 110
 297 Leu Asn His Cys Leu Ala Lys Pro Leu Thr Lys Asp Lys Ile Ile Pro
 298 115 120 125
 300 Leu Ile Asn Gln Leu Met Asp Ala
 301 130 135
 304 <210> SEQ ID NO: 17
 305 <211> LENGTH: 132
 306 <212> TYPE: PRT
 307 <213> ORGANISM: Escherichia coli
 309 <400> SEQUENCE: 17
 310 Met Gln Glu Asn Tyr Lys Ile Leu Val Val Asp Asp Asp Met Arg Leu
 311 1 5 10 15
 313 Arg Ala Leu Leu Glu Arg Tyr Leu Thr Glu Gln Gly Phe Gln Val Arg
 314 20 25 30
 316 Ser Val Ala Asn Ala Glu Gln Met Asp Arg Leu Leu Thr Arg Glu Ser
 317 35 40 45
 319 Phe His Leu Met Val Leu Asp Leu Met Leu Pro Gly Glu Asp Gly Leu
 320 50 55 60
 322 Ser Ile Cys Arg Arg Leu Arg Ser Gln Ser Asn Pro Met Pro Ile Ile
 323 65 70 75 80
 325 Met Val Thr Ala Lys Gly Glu Glu Val Asp Arg Ile Val Gly Leu Glu
 326 85 90 95
 328 Ile Gly Ala Asp Asp Tyr Ile Pro Lys Pro Phe Asn Pro Arg Glu Leu
 329 100 105 110
 331 Leu Ala Arg Ile Arg Ala Val Leu Arg Arg Gln Ala Asn Glu Leu Pro
 332 115 120 125
 334 Gly Ala Pro Ser
 335 130
 338 <210> SEQ ID NO: 18
 339 <211> LENGTH: 126
 340 <212> TYPE: PRT
 341 <213> ORGANISM: Escherichia coli
 343 <400> SEQUENCE: 18
 344 Met Ala Arg Arg Ile Leu Val Val Glu Asp Glu Ala Pro Ile Arg Glu
 345 1 5 10 15
 347 Met Val Cys Phe Val Leu Glu Gln Asn Gly Phe Gln Pro Val Glu Ala
 348 20 25 30
 350 Glu Asp Tyr Asp Ser Ala Val Asn Gln Leu Asn Glu Pro Trp Pro Asp
 351 35 40 45
 353 Leu Ile Leu Leu Asp Trp Met Leu Pro Gly Gly Ser Gly Ile Gln Phe
 354 50 55 60
 356 Ile Lys His Leu Lys Arg Glu Ser Met Thr Arg Asp Ile Pro Val Val
 357 65 70 75 80
 359 Met Leu Thr Ala Arg Gly Glu Glu Asp Arg Val Arg Gly Leu Glu
 360 85 90 95
 362 Thr Gly Ala Asp Asp Tyr Ile Thr Lys Pro Phe Ser Pro Lys Glu Leu
 363 100 105 110
 365 Val Ala Arg Ile Lys Ala Val Met Arg Arg Ile Ser Pro Met
 366 115 120 125

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
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Input Set : A:\seqlist-0623.0890000.txt
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L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:608 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:852 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29